



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

45728-36

Date of Issuance:

5/6/22

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Mancozeb Granuflo

Name and Address of Registrant (include ZIP Code):

Mia Laget and Jessica McLaughlin  
Taminco US LLC  
200 S. Wilcox Dr.  
Kingsport, TN 37660-5147

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.

Signature of Approving Official:

Nathan Mellor, Product Manager 21  
Fungicide Branch, Registration Division (7505P)

Date:

5/6/22

3. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 45728-36.”
4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 05/07/2021

If you have any questions, please contact Carmen Swinger by phone at 202-566-2923, or via email at [swinger.carmen@epa.gov](mailto:swinger.carmen@epa.gov).

Enclosure

**Note to PM:**

***Bold, italicized text is information for the reader and is not part of the label.***  
[Bracketed information is optional.] Text separated by / denotes and/or options.

EPA Reg. No. 45728-GA

**GROUP M3 FUNGICIDE**

# Mancozeb Granuflo™

**ACTIVE INGREDIENT:**

Mancozeb: A coordination product of zinc ion and manganese ethylene bisdithiocarbamate ..... 75.0%

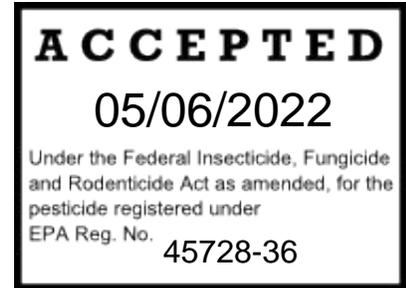
    Manganese++ ..... 15.0%

    Zinc++ ..... 1.9%

    Ethylenebisdithiocarbamate ion (C4H6N2S4) ..... 58.1%

**OTHER INGREDIENTS** ..... 25.0%

**TOTAL** ..... 100.0%



EPA Reg. No. 45728-GA

EPA Est. No. 32557-BEL-1  
EPA Est. No. XXX-XX-X

NET WEIGHT: XX.X lbs.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

<b>FIRST AID</b>	
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water or 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. For Emergencies involving a Spill, Leak, Fire, Exposure, or Accident, Contact: CHEMTREC at (800) 424-9300. For product usage information, phone Taminco US LLC, toll free at (423) 229-2000 from 9:00 AM to 5:00 PM Eastern time.</p>	

**SEE SIDE/BACK PANEL OR ATTACHED BOOKLET OR AS APPROPRIATE FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.**

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## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are natural rubber and polyethylene.

Mixers, loaders, applicators, and all other handlers must wear:

- long-sleeved shirt
- long pants
- Shoes and socks
- Chemical-resistant gloves made of any waterproof material (except pilots, groundboom applicators, and airblast applicators).

In addition, for aerial application on broccoli, cabbage, lettuce (leaf and head), and peppers, occupational handlers performing mixing and/or loading operations must wear a particulate respirator with an N, R, P or HE filter NIOSH approval prefix TC-84 A.

For walnut applications, mixers and loaders must wear a dust/mist filtering respirator (MSHA/NIOSH approval number TC-84 A) or a NIOSH approved respirator with any N, R, P, or HE filter.

For potato seed piece treatment, handlers must wear a particulate respirator with an N, R, P or HE filter NIOSH approval prefix TC-84 A.

See engineering controls for additional requirements.

### USER SAFETY REQUIREMENTS:

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### ENGINEERING CONTROLS

**Enclosed Cockpits:** Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (6)].

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**Mechanical Flagging Engineering Controls:** Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

### USER SAFETY RECOMMENDATIONS:

User should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic aquatic organisms. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. **DO NOT** apply directly to water, to areas where surface water is present, or to inter-tidal areas below the mean high-water mark. **DO NOT** contaminate water when cleaning equipment or disposing of equipment washwater or rinsate.

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## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, including plants, soil, or water, is:

- Coveralls
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Commercial seed treatments and applications to lawn grasses, golf courses, industrial (office park), ornamentals, and municipal lawns are not within the scope of the Worker Protection Standard. **DO NOT** enter or allow others to enter the treated area until sprays have dried.

## PRODUCT INFORMATION FOR AGRICULTURAL USES

Mancozeb Granuflo is a dry flowable formulation of the broad-spectrum fungicide mancozeb. This product is a multi-site Group M fungicide. It may be used with systemic fungicides for broad-spectrum disease control and can be used in Integrated Pest Management (IPM) programs. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

## INSTRUCTIONS FOR APPLICATION FOR AGRICULTURAL USES

Spray applications can be made by aircraft or ground equipment. Maintain agitation during filling and spraying operations. **DO NOT** allow mixture to stand.

For aerial spray applications, use enough water for coverage, a minimum of 2 gallons per acre for field crops and 10 gallons per acre for orchard crops.

For ground applications, use enough water to provide thorough coverage, a minimum of 10 to 100 gallons of water per acre.

Use a spreader sticker-adjuvant if needed. Add product slowly to water in the spray tank with agitation, or premix thoroughly in separate holding tank for concentrate or aircraft sprayers. Continuous agitation is required to keep the product in suspension.

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When dosage ranges are given, use the higher rate and shorter intervals under severe disease pressure, but do not exceed the maximum rate or apply more frequently than the minimum interval given in the directions for that crop.

## DISEASE MONITORING

Mancozeb Granuflo is a broad-spectrum fungicide. Scout crops on a weekly basis or adhere to a routine protectant spray schedule. Apply this product at the required label use rate and spray schedule, at the first sign of disease, report of disease in the area, or during environmental conditions favorable for disease development.

## MAXIMUM ANNUAL POUNDAGE WHEN USED IN CONJUNCTION WITH ONE OR MORE EBDC PRODUCTS

### FOLIAR APPLICATIONS

#### **Where EBDC Products Used Allow the Same Maximum Poundage of Active Ingredient Per Acre Per Year:**

If more than one product containing an EBDC active ingredient (maneb, mancozeb, or metiram) is used on a crop during the same year and the EBDC products used allow the same maximum poundage of active ingredient per acre per year, then the total poundage of all such EBDC products used must not exceed any one of the specified individual EBDC product maximum annual poundage of active ingredient allowed per acre.

#### **Where EBDC Products Used Allow Different Maximum Poundage of Active Ingredient Per Acre Per Year:**

If more than one product containing an EBDC active ingredient is used on a crop during the same year and the EBDC products used allow different maximum poundage of active ingredient per acre per year, then the total poundage of all such EBDC products used must not exceed the lowest specified individual EBDC product maximum annual poundage of active ingredient allowed per acre.

### SEED TREATMENT

In addition to the maximum number of foliar applications permitted by the formula stated above, a single application for seed treatment may be made on crops which have registered seed treatment uses.

## MANDATORY SPRAY DRIFT REQUIREMENTS

### Aerial Applications

- Do not release spray at a height greater than 10 ft above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- For all applications, applicators are required to use a medium or coarser spray droplet size (ASABE S572.1).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

### Ground Applications

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- For all applications, applicators are required to use a medium or coarser spray droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

### Boom-less Ground Applications:

- Applicators are required to use a medium or coarser droplet size (ASABE S572.1) for all applications.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

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○ Spray Drift Advisories

- THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.
- BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.
- IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size - Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size - Aircraft

- Adjust Nozzles - Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

- BOOM HEIGHT - Ground Boom

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.

- RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift. When applying aerially to crops, do not release spray at a height greater than 10 ft above the crop canopy, unless a greater application height is necessary for pilot safety.

- SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

- TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

- TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

- WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

- Boom-less Ground Applications:

Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

- Handheld Technology Applications:

Take precautions to minimize spray drift.

**OTHER STATE AND LOCAL REQUIREMENTS:**

Applicators must follow all state and local pesticide drift requirements regarding application of mancozeb. Where states have more stringent regulations, they must be observed.

**EQUIPMENT:**

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers and surrogates.

**ADDITIONAL REQUIREMENTS FOR AERIAL APPLICATION:**

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- The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.
- Release spray at the lowest height consistent with efficacy and flight safety. **DO NOT** release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.
- When applications are made with a crosswind, the swath must be displaced downwind. The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

#### ADDITIONAL REQUIREMENTS FOR GROUND BOOM APPLICATION:

**DO NOT** apply with a nozzle height greater than 4 feet above the crop canopy.

#### CHEMIGATION

##### SPECIFIC INSTRUCTIONS FOR CHEMIGATION:

- Apply Mancozeb Granuflo only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation system. **DO NOT** apply this product through any other type of irrigation system.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- If you have questions about calibration, you must contact State Extension Service specialists, equipment manufacturers or other experts.
- **DO NOT** connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments if the need arises.

##### SPECIFIC INSTRUCTIONS FOR SPRINKLER IRRIGATION SYSTEMS:

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, for example a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- **DO NOT** apply when wind speed favors drift beyond the area intended for treatment.
- Continuous agitation is required in the injection tank to keep the product in suspension.
- In moving systems (center pivot, lateral move, end tow, side wheel roll, traveler), apply specified dosage of Mancozeb Granuflo as a continuous injection.
- In non-moving systems, inject Mancozeb Granuflo for 15 to 30 minutes at end of cycle. Use the least amount of water possible consistent with uniform coverage.
- Mix the amount of Mancozeb Granuflo needed for acreage to be treated into the quantity of water determined during prior calibration. For moving systems inject into the system continuously for one complete revolution of the field. For non-moving systems inject into system for the time established during calibration.

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- Stop injection equipment after treatment is completed and continue to operate irrigation equipment until all the Mancozeb Granuflo is flushed from system.
- Apply Mancozeb Granuflo within 0.1 to 1.25 inches of water per acre. Higher volumes than this may reduce efficacy. Start first the sprinkler and then uniformly inject the suspension of Mancozeb Granuflo into the irrigation water line to deliver the desired rate of Mancozeb Granuflo per acre in the required quantity of water per acre.

**SPRAY PREPARATION:**

Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

Preparation of the suspension of Mancozeb Granuflo: fill the tank with ½ or ¾ the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of Mancozeb Granuflo and then the remaining volume of water.

**FIELD CROPS**

Crop	Diseases	Maximum Pounds of Mancozeb Granuflo per Acre	Maximum Pounds of Active Ingredient per Acre	Directions for Use
Field Corn, and Corn Grown for Seed	Common Rust Gray Leaf Spot Helminthosporium Leaf Blight	1.0-1.5 lbs.	0.75-1.125 lbs.	Apply enough water for thorough coverage. Begin applications when disease first appears and repeat at 4 to 7-day intervals.
<b>Restrictions:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 16 lbs. product or 12 lbs. a.i. per acre per year.</li> <li>• <b>DO NOT</b> apply more than 1.5 lbs product (1.125 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 16 applications at the lowest rate, or 10 at the higher rate per year.</li> <li>• <b>DO NOT</b> apply more frequently than 4 days.</li> <li>• <b>DO NOT</b> apply within 40 days of harvest.</li> </ul>				
Peanuts	Ascochyta Web Cercospora Leaf Spot Rust	1.0-2.0 lbs.	0.75-1.5 lbs.	Begin applications when disease first appears in the growing region. Reapply at 7 to 14-day intervals, using shorter interval under severe disease pressure or extended humid weather.
<b>Restrictions:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> feed treated vines to livestock.</li> <li>• <b>DO NOT</b> use more than 17 lbs. product or 12.8 lbs. ai per acre per year.</li> <li>• <b>DO NOT</b> apply within 14 days of harvest.</li> <li>• <b>DO NOT</b> apply more than 2.0 lbs product (1.5 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 17 applications at the lowest rate, or 8 at the higher rate per year.</li> <li>• <b>DO NOT</b> apply more frequently than 7 days.</li> </ul>				
Sugar Beets	Cercospora Leaf Spot Rust	1.5-2.0 lbs.	1.125-1.5 lbs.	Begin applications when disease first threatens and repeat at 7 to 10-day intervals.
<b>Restrictions:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 15 lbs. product or 11.2 lbs. ai per acre per year.</li> <li>• <b>DO NOT</b> apply within 14 days of harvest.</li> <li>• <b>DO NOT</b> apply more than 2.0 lbs product (1.5 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 10 applications at the lowest rate, or 7 at the higher rate per year.</li> <li>• <b>DO NOT</b> apply more frequently than 7 days.</li> </ul>				

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Crop	Diseases	Maximum Pounds of Mancozeb Granuflo per Acre	Maximum Pounds of Active Ingredient per Acre	Directions for Use
Wheat Barley Oats Rye Triticale	Helminthosporium Leaf Spot Leaf Rust Scab (head blight) <sup>(1)</sup> Septoria Glume Blotch Septoria Leaf Spot Tan Spot	1.0-2.0 lbs.	0.75-1.5 lbs.	Begin applications at onset of disease or when plants are in tillering to jointing stage and repeat at 7 to 10-day intervals.

**Restrictions:**

- **DO NOT** apply more than 6.4 lbs. product or 4.8 lbs. ai per acre per year. Pre-Harvest Interval (PHI) is at Feekes Growth Stage 10.5 (typically 35-45 days), but no less than 26 days (46-day pre-harvest interval in California.)
- **DO NOT** apply more than 2.0 lbs product (1.5 lbs a.i.)/A during a single application.
- **DO NOT** make more than 6 applications at the lowest rate, or 3 at the higher rate per year.
- **DO NOT** apply more frequently than 7 days.
- **DO NOT** graze livestock in treated areas prior to harvest.
- In California – scab control on wheat only.

**VEGETABLE CROPS**

Crop	Diseases	Maximum Pounds of Mancozeb Granuflo per Acre	Maximum Pounds of Active Ingredient per Acre	Directions for Use
Asparagus	Cercospora Leaf Spot Rust	2.0 lbs.	1.5 lbs.	Begin applications when rust first appears and repeat at 10-day intervals as needed. Use only on ferns after spears have been harvested.

**Restrictions:**

- **DO NOT** apply more than 8.5 lbs. product or 6.4 lbs. ai per acre per year.
- **DO NOT** apply more than 2.0 lbs product (1.5 lbs a.i.)/A during a single application.
- **DO NOT** make more than 4 applications per year.
- **DO NOT** apply more frequently than 10 days.
- **DO NOT** apply within 180 days of harvest in all states except California and Arizona.
- In California and Arizona, the PHI is 120 days.

Broccoli	Alternaria Leaf Spot Downy Mildew	1.6-2.1 lbs.	1.2-1.575 lbs.	Begin applications prior to disease development and when conditions are favorable for disease development. Apply at 7 to 10-day intervals, if needed. Use higher specified rates when conditions favor disease.
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**Restrictions:**

- **DO NOT** apply more than 12.8 lbs. product or 9.6 lbs. ai per are per year.
- **DO NOT** apply this product with a U-boom device.
- **DO NOT** apply more than 2.1 lbs product (1.575 lbs a.i.)/A during a single application.
- **DO NOT** make more than 8 applications at the lowest rate, or 6 at the higher rate per year..

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<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more frequently than 7 days.</li> <li>• Minimum PHI is 7 days.</li> <li>• Aerial applications of Mancozeb Granuflo on broccoli requires that occupational handlers performing mixing/loading operations observe the additional mitigation measures of wearing a particulate respirator with an N, R, or P filter, NIOSH approval prefix TC- 84 A.</li> </ul>				
<b>Cabbage</b>	<b>Alternaria Leaf Spot Downy Mildew</b>	1.6-2.1 lbs.	1.2-1.575 lbs.	Begin applications prior to disease development and when conditions are favorable for disease development. Apply at 7 to 10-day intervals, if needed. Use higher specified rates when conditions favor disease..
<p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 12.8 lbs. product or 9.6 lbs. ai per acre per year.</li> <li>• <b>DO NOT</b> apply this product with a U-boom device.</li> <li>• <b>DO NOT</b> apply more than 2.1 lbs product (1.575 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 8 applications at the lowest rate, or 6 at the higher rate per year.</li> <li>• <b>DO NOT</b> apply more frequently than 7 days.</li> <li>• Minimum PHI is 7 days.</li> <li>• Aerial applications of Mancozeb Granuflo on cabbage requires that occupational handlers performing mixing/loading operations observe the additional mitigation measures of wearing a particulate respirator with an N, R, or P filter, NIOSH approval prefix TC- 84 A.</li> </ul>				
<b>Corn, sweet corn used for fresh and processing, popcorn, and sweet corn used for seed production, including hybrid seed</b>	<b>Common Rust Gray Leaf Spot Helminthosporium Leaf Blight</b>	1.0-1.5 lbs.	0.75-1.125 lbs.	<b>East of the Mississippi:</b> (including Arkansas and Louisiana) Apply enough water for thorough coverage. Begin applications when disease first appears and repeat at 4 to 7-day intervals. <b>West of the Mississippi:</b> (excluding Arkansas and Louisiana) Apply enough water for thorough coverage. Begin applications when disease first appears and repeat at 4 to 7-day intervals.
<p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply within 7 days of harvest.</li> <li>• <b>DO NOT</b> feed treated forage (plant stalk and leaves) to livestock.</li> <li>• <b>DO NOT</b> apply more frequently than 4 days.</li> <li>• <b>DO NOT</b> apply more than 1.5 lbs product (1.125 lbs a.i.)/A during a single application.</li> <li>• <b>East of the Mississippi:</b> (including Arkansas and Louisiana)             <ul style="list-style-type: none"> <li>○ <b>DO NOT</b> apply more than 24 lbs. product or 18 lbs. ai per acre per year.</li> <li>○ <b>DO NOT</b> make more than 24 applications at the lowest rate, or 16 at the higher rate per year.</li> </ul> </li> <li>• <b>West of the Mississippi:</b> (excluding Arkansas and Louisiana)             <ul style="list-style-type: none"> <li>○ <b>DO NOT</b> apply more than 8 lbs. product or 6.0 lbs. ai per acre per year.</li> <li>○ <b>DO NOT</b> make more than 8 applications at the lowest rate, or 5 at the higher rate per year.</li> </ul> </li> </ul>				
<b>Cucurbits: Chayote, Chinese waxgourd, Citronmelon Cucumber, Gherkin, Momordica spp. Muskmelon, Pumpkin,</b>	<b>Alternaria Leaf Spot Anthracnose Cercospora Leaf Spot Downy Mildew Gummy Stem Blight Pythium Fruit Rot Scab</b>	2.0-3.0 lbs.	1.5-2.25 lbs.	Apply enough water for thorough coverage of both upper and lower leaf surfaces. Begin applications when the plants are in the two-leaf stage and repeat at 7 to 10-day intervals. Some varieties are sensitive to mancozeb. Consult State and Cooperative Extension Service Specialists prior to use.

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<b>Squash (Summer and Winter), Watermelon</b>				
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**Restrictions:**

- **DO NOT** apply more than 25.6 lbs. product or 19.2 lbs. ai per acre per year.
- **DO NOT** apply more than 3.0 lbs product (2.25 lbs a.i.)/A during a single application.
- **DO NOT** make more than 12 applications at the lowest rate, or 8 at the higher rate per year.
- **DO NOT** apply more frequently than 7 days.
- **DO NOT** apply within 5 days of harvest.

<b>Fennel</b>	<b>Early Blight Late Blight</b>	1.5-2.0 lbs.	1.125-1.5 lbs.	Begin applications in plant beds at emergence repeat as needed at 7 to 10-day intervals.
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**Restrictions:**

- **DO NOT** use more than 17 lbs. product or 12.8 lbs. ai per acre per year.
- **DO NOT** apply more than 2.0 lbs product (1.5 lbs a.i.)/A during a single application.
- **DO NOT** make more than 11 applications at the lowest rate, or 8 at the higher rate per year.
- **DO NOT** apply more frequently than 7 days.
- **DO NOT** apply within 14 days of harvest.

<b>Ginseng</b>	<b>Alternaria Blight</b>	2.0 lbs.	1.5 lbs.	Begin applications when disease first threatens and repeat at 7 to 10-day intervals as needed. In Wisconsin, apply with ground equipment and a minimum of 80 gallons of water per acre.
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**Restrictions:**

- **DO NOT** apply more than 24 lbs. product or 18 lbs. ai per acre per year.
- **DO NOT** apply more than 2.0 lbs product (1.5 lbs a.i.)/A during a single application.
- **DO NOT** make more than 12 applications per year.
- **DO NOT** apply more frequently than 7 days.
- **DO NOT** apply within 30 days of harvest.

<b>Lettuce (Head, Leaf)</b>	<b>Anthraco<sup>s</sup>e Downy Mildew</b>	1.6-2.1 lbs.	1.2-1.575 lbs.	Begin applications prior to disease development and when conditions are favorable for disease development. Apply at 7 to 10-day intervals, if needed. Use higher specified rates when conditions favor disease. Remove residues from head lettuce by stripping and trimming.
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**Restrictions:**

- **DO NOT** apply this product with a U-boom device.
- **DO NOT** apply more than 2.1 lbs product (1.575 lbs a.i.)/A during a single application.
- In California:
  - **DO NOT** apply more than 8.5 lbs. product or 6.4 lbs. ai per acre per year.
  - **DO NOT** apply within 14 days of harvest.
  - **DO NOT** make more than 5 applications at the lowest rate, or 4 at the higher rate per year.
- In states other than California:
  - **DO NOT** apply more than 12.8 lbs. product or 9.6 lbs. ai per acre per year.

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<ul style="list-style-type: none"> <li>○ <b>DO NOT</b> make more than 8 applications at the lowest rate, or 6 at the higher rate per year.</li> <li>○ <b>DO NOT</b> apply within 10 days of harvest.</li> <li>● For all states, <b>DO NOT</b> apply more frequently than 7 days.</li> <li>● Aerial applications of Mancozeb Granuflo on lettuce (head and leaf) requires that occupational handlers performing mixing/loading operations observe the additional mitigation measures of wearing a particulate respirator with an N, R, or P filter, NIOSH approval prefix TC- 84 A.</li> </ul>				
<b>Melons:</b> Cantaloupes, Casabas, Crenshaws, Honeydews	<b>Alternaria leaf</b> <b>Spot Anthracnos</b> <b>Cercospora Leaf</b> <b>Spot Downy</b> <b>Mildew</b> <b>Gummy Stem</b> <b>Blight</b>	2.0-3.0 lbs.	1.5-2.25 lbs.	Begin applications when plants are in the two-leaf stage and repeat at 7 to 10 day intervals. Use enough water and direct spray to provide thorough coverage of both upper and lower leaf surfaces Some cantaloupe varieties (i.e. Harvest Queen, Gold Star, Super Star, Sweet and Early, and Saticoy) are sensitive to Mancozeb Granuflo. Consult State Cooperative Extension Service Specialist prior to use.
<b>Restrictions:</b> <ul style="list-style-type: none"> <li>● <b>DO NOT</b> apply more than 25.6 lbs. product or 19.2 lbs. ai per acre per year.</li> <li>● <b>DO NOT</b> apply more than 3.0 lbs product (2.25 lbs a.i.)/A during a single application.</li> <li>● <b>DO NOT</b> make more than 12 applications at the lowest rate, or 8 at the higher rate per year.</li> <li>● <b>DO NOT</b> apply more frequently than 7 days.</li> <li>● <b>DO NOT</b> apply within 5 days of harvest.</li> </ul>				
<b>Onions (Dry Bulb)</b> Garlic Shallots	<b>Botrytis Leaf</b> <b>Blight</b> <b>Downy Mildew</b> <b>Neck Rot</b> <b>Purple Blotch</b> <b>Rust</b>	2.0-3.0 lbs.	1.5-2.25 lbs.	Begin preventive application when diseases are first reported in the growing region. Repeat at 7 day intervals throughout the season.
<b>Restrictions:</b> <ul style="list-style-type: none"> <li>● <b>DO NOT</b> apply within 7 days of harvest.</li> <li>● <b>DO NOT</b> apply to exposed bulbs.</li> <li>● <b>DO NOT</b> apply more than 32 lbs. product or 24.0 lbs. ai per acre per year.</li> <li>● <b>DO NOT</b> apply more than 3.0 lbs product (2.25 lbs a.i.)/A during a single application.</li> <li>● <b>DO NOT</b> make more than 16 applications at the lowest rate, or 10 at the higher rate per year.</li> <li>● <b>DO NOT</b> apply more frequently than 7 days.</li> <li>● <b>DO NOT</b> allow spray or drift to contact bulbs after lifting from soil.</li> </ul>				
<b>Onions<sup>(1)</sup></b> <b>(Furrow Drench)</b>	<b>Damping Off</b> <b>Seed Rots</b> <b>Seedling Blights</b> <b>Smut</b>	3.0 lbs.	2.25 lbs.	Apply as a furrow drench at time of planting onion seeds. Use 75 to 125 gallons of water per acre.
<b>Restrictions:</b> <ul style="list-style-type: none"> <li>● <b>DO NOT</b> use more than 3.2 lbs. product or 2.4 lbs. ai per 29,000 linear feet of row with an 18-inch row spacing.</li> <li>● <b>DO NOT</b> use in California.</li> </ul>				
<b>Pepper (East of the Mississippi)</b>	<b>Anthracnose</b> <b>Bacterial Spot</b> <i>(Xanthomonas axonopodis pv. vesicatoria)</i> <b>Cercospora Leaf Spot</b> <b>(Frogeye Spot)</b> <b>Phytophthora</b> <b>Blight</b> <b>Ripe Rot</b>	1.6 – 3.2 lbs.	1.2-2.4 lbs.	Begin applications prior to disease development and when conditions are favorable for disease development. Apply at 7 to 10-day intervals, if needed. Use higher specified rates when conditions favor disease

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<p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 19.2 lbs. product or 14.4 lbs. ai per acre per year.</li> <li>• <b>DO NOT</b> apply more than 3.2 lbs product (2.4 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 12 applications at the lowest rate, or 6 at the higher rate per year.</li> <li>• <b>DO NOT</b> apply more frequently than 7 days.</li> <li>• <b>DO NOT</b> apply this product with a U-boom device.</li> <li>• Minimum PHI is 7 days.</li> <li>• Aerial applications of Mancozeb Granuflo on peppers requires that occupational handlers performing mixing/loading operations observe the additional mitigation measures of wearing a particulate respirator with an N, R, or P filter, NIOSH approval prefix TC- 84 A.</li> </ul>				
<p><b>Pepper (West of the Mississippi)</b></p>	<p><b>Anthracnose Bacterial Spot (<i>Xanthomonas axonopodis pv. vesicatoria</i>) Cercospora Leaf Spot (Frogeye Spot) Phytophthora Blight Ripe Rot</b></p>	<p>1.6 - 2.1 lbs.</p>	<p>1.2-1.575 lbs.</p>	<p>Begin applications prior to disease development and when conditions are favorable for disease development. Apply at 7 to 10-day intervals, if needed. Use higher specified rates when conditions favor disease.</p>
<p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 12.8 lbs. product or 9.6 lbs. ai per are per crop.</li> <li>• <b>DO NOT</b> apply more than 2.1 lbs product (1.575 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 8 applications at the lowest rate, or 6 at the higher rate per year..</li> <li>• <b>DO NOT</b> apply more frequently than 7 days.</li> <li>• Minimum PHI is 7 days.</li> <li>• <b>DO NOT</b> apply this product with a U-boom device.</li> <li>• Aerial applications of Mancozeb Granuflo on peppers requires that occupational handlers performing mixing/loading operations observe the additional mitigation measures of wearing a particulate respirator with an N, R, or P filter, NIOSH approval prefix TC- 84 A.</li> </ul>				
<p><b>Potatoes</b></p>	<p><b>Early Blight Late Blight</b></p>	<p>0.5-2.0 lbs.</p>	<p>0.375-1.5 lbs.</p>	<p>Begin applications when plants are 4-6 inches high by applying 0.5 to 1.1 lbs. product or 0.4 to 0.8 lbs. ai per acre. As the vines increase in size, apply 1.6 to 2.1 lbs. product or 1.2 to 1.6 lbs. ai per acre at 5 to 10-day intervals or 0.8 to 1.1 lbs. product or 0.6 to 0.8 lbs. ai per acre at 3 to 5-day intervals. It is advised that this product be used within an Integrated Pest Management Program. Vine kill will occur approximately 14 days before harvest.</p>
<p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 15 lbs. product or 11.2 lbs. ai per acre per year.</li> <li>• <b>DO NOT</b> apply more than 2.0 lbs product (1.5 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 30 applications at the lowest rate, or 7 at the higher rate per year.</li> <li>• <b>DO NOT</b> apply more frequently than 3 days.</li> <li>• <b>DO NOT</b> apply within 14 days of harvest (except in Connecticut, Delaware, Florida, Maine, Massachusetts, Michigan, New Hampshire, New York, Ohio, Pennsylvania, Rhode Island, Vermont, and Wisconsin where a 3-day PHI is allowed).</li> </ul>				
<p><b>Potato Seed- Piece Treatment</b></p>	<p><b>Fusarium Seed Piece Decay Seedborne Common Scab</b></p>			<p>Dip whole or cut potato tubers in a mixture of 1 ¼ lbs. of Mancozeb Granuflo per 50 gallons of water, remove from solution and plant immediately. If seed pieces are to be held before planting, spread out to dry in a</p>

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				cool place. When opening this bag or loading/pouring the treated seed, wear long-sleeved shirt, long pants, shoes, socks, chemical resistant gloves, and a particulate respirator with a N, R, or P filter, NIOSH approved number prefix TC 84 A.
<p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> use treated seed pieces for food or feed purposes.</li> <li>• Seeds/seed-pieces that have been treated with Mancozeb Granuflo that are then packaged or bagged for future use must contain the following labeling on the outside of the seed/seed-piece package or bag: <ul style="list-style-type: none"> <li>○ Treated Seed/Seed-Pieces treated with the fungicide Mancozeb Granuflo</li> <li>○ <b>DO NOT</b> use for Food, Feed, or Oil Purpose.</li> <li>○ When opening this bag or loading/pouring the treated seed, wear long-sleeved shirt, long pants, shoes, socks, chemical resistant gloves, and a particulate respirator with a N, R, or P filter, NIOSH approved number prefix TC 84 A.</li> </ul> </li> <li>• After the seeds/seed-pieces have been planted, <b>DO NOT</b> enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours. Exception: Once the seeds are planted in soil or other planting media, the Worker Protection Standard allows workers to enter the treated area without restriction if there will be no worker contact with the soil media subsurface.</li> </ul>				
<b>Squash (Summer Squash, Including Edible gourds)</b>	<b>Anthraxnose Downy Mildew</b>	2.0-3.0 lbs.	1.5-2.25 lbs.	Begin applications when plants are in the two-leaf stage and repeat at 7 to 10-day intervals, as needed. Use sufficient water and direct spray to provide thorough coverage of both upper and lower leaf surfaces
<p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 25.6 lbs. product or 19.2 lbs. ai per acre per year.</li> <li>• <b>DO NOT</b> apply more than 3.0 lbs product (2.25 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 12 applications at the lowest rate, or 8 at the higher rate per year.</li> <li>• <b>DO NOT</b> apply more frequently than 7 days.</li> <li>• <b>DO NOT</b> apply within 5 days of harvest.</li> </ul>				
<b>Tomatoes (East of the Mississippi)</b>	<b>Anthraxnose Early Blight Late Blight Gray Leaf Mold Gray Leaf Spot Septoria Leaf Spot</b>	0.75-3.0 lbs.	0.562-2.25 lbs.	Begin applications when seedlings emerge, or transplants are set. Repeat applications of 0.75 to 1.5 lbs. product or 0.6 to 1.2 lbs. ai per acre at 3 to 7-day intervals, or 1.5 to 3.0 lbs. product 1.2 to 2.4 lbs. ai per acre at 7 to 10-day intervals throughout the season.
<p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply within 5 days of harvest.</li> <li>• <b>DO NOT</b> apply more than 22.4 lbs. product or 16.8 lbs. ai per acre per year.</li> <li>• <b>DO NOT</b> apply more than 3.0 lbs product (2.25 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 29 applications at the lowest rate, or 7 at the higher rate per year.</li> <li>• <b>DO NOT</b> apply more frequently than 3 days.</li> </ul>				
<b>Tomatoes (East of the Mississippi)</b>	<b>Bacterial Speck and Spot</b>	0.75-3.0 lbs.	0.562-2.25 lbs.	Start application when seedlings emerge, or transplants are set. Repeat at 7 to 10-day intervals throughout the season. Use a full rate of a fixed copper fungicide in tank mix combination with a half to full rate of Mancozeb Granuflo. Follow the application interval on the copper fungicide label.
<p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply within 5 days of harvest.</li> <li>• <b>DO NOT</b> apply more than 22.4 lbs. product or 16.8 lbs. ai per acre per year.</li> </ul>				

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<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 3.0 lbs product (2.25 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 29 applications at the lowest rate, or 7 at the higher rate per year.</li> <li>• <b>DO NOT</b> apply more frequently than 7 days.</li> </ul>				
<b>Tomatoes (West of the Mississippi)</b>	<b>Anthraco</b> <b>se</b> <b>Early Blight</b> <b>Late Blight</b> <b>Gray Leaf Mold</b> <b>Gray Leaf Spot</b> <b>Septoria Leaf Spot</b>	0.75-2.0 lbs.	0.562-1.5 lbs.	Begin applications when seedlings emerge, or transplants are set. Repeat applications of 0.75 to 1.0 lbs. product or 0.6 to 0.8 lbs. ai per acre at 3 to 7-day intervals, or 1.5 to 2.0 lbs. product or 1.2 to 1.6 lbs. ai per acre at 7 to 10-day intervals throughout the season.
<p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply within 5 days of harvest.</li> <li>• <b>DO NOT</b> apply more than 8.5 lbs. product or 6.4 lbs. active per acre per year.</li> <li>• <b>DO NOT</b> apply more than 2.0 lbs product (1.5 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 11 applications at the lowest rate, or 4 at the higher rate per year.</li> <li>• <b>DO NOT</b> apply more frequently than 3 days.</li> </ul>				
<b>Tomatoes (West of the Mississippi)</b>	<b>Bacterial Speck and Spot</b>	0.75-2.0 lbs.	0.562-1.5 lbs.	Start application when seedlings emerge, or transplants are set. Repeat at 7 to 10-day intervals throughout the season. Use a full rate of a fixed copper fungicide in tank mix combination with a half to full rate of Mancozeb Granuflo. Follow the application interval on the copper fungicide label.
<p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply within 5 days of harvest.</li> <li>• <b>DO NOT</b> apply more than 8.5 lbs. product or 6.4 lbs. active per acre per year.</li> <li>• <b>DO NOT</b> apply more than 2.0 lbs product (1.5 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 11 applications at the lowest rate, or 4 at the higher rate per year.</li> <li>• <b>DO NOT</b> apply more frequently than 7 days.</li> </ul>				

**TREE NUTS**

<b>Crop</b>	<b>Diseases</b>	<b>Maximum Pounds of Mancozeb Granuflo per Acre</b>	<b>Maximum Pounds of Active Ingredient per Acre</b>	<b>Directions for Use</b>
<b>Almonds</b>	<b>Blossom Blight</b> <i>(Monilinia spp.)</i> <b>Shot Hole</b> <i>(Wilsonomyces carpophilum)</i>	6.4 lbs.	4.8 lbs.	Begin applications at dormant to popcorn stage, full bloom, or petal fall. Reapply every 7 to 10 days if bloom is staggered and weather is rainy.
<p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> use less than 10 gallons of spray volume per acre if aerially applied.</li> <li>• <b>DO NOT</b> apply more than 19.2 lbs. product or 14.4 lbs. ai per acre per year.</li> <li>• <b>DO NOT</b> apply more than 6.4 lbs product (4.8 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• <b>DO NOT</b> apply more frequently than 7 days.</li> <li>• <b>DO NOT</b> make last application later than 5 weeks after petal fall.</li> <li>• <b>DO NOT</b> graze livestock in treated area.</li> <li>• <b>DO NOT</b> apply this product with a U-boom device.</li> </ul>				
<b>Walnuts</b>	<b>Walnut Blight</b> <i>(Xanthomonas campestris)</i>	2.4 lbs.	1.8 lbs.	Apply by ground in a minimum of 100 gallons of water per acre, or by air in a minimum of 10 gallons of water per acre.

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	<b><i>pv. Juglandis</i></b>			Begin applications at early pre- bloom prior to or when catkins are partially expanded. Make additional applications during bloom and early nutlet stage, or as needed if frequent rainfall occurs.
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**Restrictions:**

- **DO NOT** apply through any irrigation system.
- **DO NOT** apply more than 24 lbs. product or 18 lbs. ai per acre per year.
- **DO NOT** apply more than 2.4 lbs product (1.8 lbs a.i.)/A during a single application.
- **DO NOT** make more than 10 applications per year.
- **DO NOT** apply more frequently than 7 days.
- **DO NOT** apply within 75 days before harvest.
- This product must be tank-mixed with a fixed copper product registered for use on walnuts.
- Aerial applications of Mancozeb Granuflo on walnuts requires that occupational handlers performing mixing/loading operations observe the additional mitigation measures of wearing a particulate respirator with an N, R, or P filter, NIOSH approval prefix TC- 84 A.

**FRUIT CROPS**

Crop	Diseases	Maximum Pounds of Mancozeb Granuflo per Acre	Maximum Pounds of Active Ingredient per Acre	Directions for Use
Apples Crabapples Pears Pome Fruit Quince (Pre-Bloom/Bloom Use)	<b>Fabraea Leaf Spot Flyspeck Rusts (including Cedar Apple) Scab Sooty Blotch</b>	6.4 lbs.	4.8 lbs.	Begin applications at ¼ to ½ inch green tip and continue a 7 to 10-day application schedule through bloom. Apply in a minimum of 50 gallons of water per acre.

**Restrictions:**

- **DO NOT** apply more than 25.6 lbs. product or 19.2 lbs. ai per acre per year.
- **DO NOT** apply more than 6.4 lbs product (4.8 lbs a.i.)/A during a single application.
- **DO NOT** make more than 4 applications per year.
- **DO NOT** apply more frequently than 7 days.
- **DO NOT** apply within 77 days of harvest.
- **DO NOT** graze livestock in treated areas.

Apples Crabapples Pears Pome Fruit Quince (Extended Application Schedule or Tank Mixtures)	<b>Fabraea Leaf Spot Flyspeck Rusts (including Cedar Apple) Scab Sooty Blotch</b>	3.2 lbs.	2.4 lbs.	For implementation of IPM programs, applications based on tree-row volume or for use as a resistance management tool: begin applications at ¼ to ½ inch green tip and continue applications on a 7 to 10-day schedule through the second cover spray. It is advised that this product be used in an Integrated Pest Management Program. Apply in a minimum of 50 gallons of water per acre.
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**Restrictions:**

- **DO NOT** apply more than 22.4 lbs. product or 16.8 lbs. ai per acre per year.
- **DO NOT** apply more than 3.2 lbs product (2.4 lbs a.i.)/A during a single application.
- **DO NOT** make more than 7 applications per year.
- **DO NOT** apply more frequently than 7 days.

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<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply within 77 days of harvest.</li> <li>• <b>DO NOT</b> graze livestock in treated areas.</li> </ul>				
<b>Bananas (Plantain)</b>	<b>Sigatoka</b>	2.0-3.0 lbs.	1.5-2.25 lbs.	Apply enough water for thorough coverage. Begin applications when leaves first appear and repeat as needed on a 14 to 21-day interval. May be applied up to the day of harvest.
<b>Restrictions:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 32 lbs. product or 24 lbs. ai per acre per year.</li> <li>• <b>DO NOT</b> apply more than 3.0 lbs product (2.25 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 16 applications at the lowest rate, or 10 at the higher rate per year.</li> <li>• <b>DO NOT</b> apply more frequently than 14 days.</li> </ul>				
<b>Cranberries</b>	<b>Fruit Rot</b>	3.0-6.0 lbs.	2.25-4.5 lbs.	Begin applications at mid-bloom and repeat at 7 to 10-day intervals.
<b>Restrictions:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply within 30 days of harvest.</li> <li>• <b>DO NOT</b> apply more than 19.2 lbs. product or 14.4 lbs. ai per acre per year.</li> <li>• <b>DO NOT</b> apply more than 6.0 lbs product (4.5 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 6 applications at the lowest rate, or 3 at the higher rate per year.</li> <li>• <b>DO NOT</b> apply more frequently than 7 days.</li> </ul>				
<b>Grapes (East of the Rocky Mountains)</b>	<b>Black Rot Bunch Rot Downy Mildew Phomopsis (Deadarm)</b>	1.5-4.0 lbs.	1.125-3 lbs.	Apply in enough water to provide thorough coverage. Begin applications when shoots are ½ to 1 ½ inches long. Continue at 7 to 10-day intervals.
<b>Restrictions:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply within 66 days of harvest.</li> <li>• <b>DO NOT</b> apply more than 25.6 lbs. product or 19.2 lbs. ai per acre per year.</li> <li>• <b>DO NOT</b> apply more than 4.0 lbs product (3.0 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 17 applications at the lowest rate, or 6 at the higher rate per year.</li> <li>• <b>DO NOT</b> apply more frequently than 7 days.</li> </ul>				
<b>Grapes (West of the Rocky Mountains)</b>	<b>Black Rot Bunch Rot Downy Mildew Phomopsis (Deadarm)</b>	1.5-2.5 lbs.	1.125-1.875 lbs.	Apply enough water to provide thorough coverage. Begin applications when shoots are ½ to 1 ½ inches long. Continue at 7 to 10-day intervals. For late season control of black rot, deadarm, and downy mildew, the use of other fungicides is suggested.
<b>Restrictions:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply within 66 days of harvest.</li> <li>• <b>DO NOT</b> apply more than 8 lbs. product or 6.0 lbs. ai per acre per year.</li> <li>• <b>DO NOT</b> apply more than 2.5 lbs product (1.875 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 5 applications at the lowest rate, or 3 at the higher rate per year.</li> <li>• <b>DO NOT</b> apply more frequently than 7 days.</li> <li>• In California, <b>DO NOT</b> apply after bloom.</li> </ul>				
<b>Large Tropical Fruit: Canistel, Mamey Sapote Mango, Sapodilla, Star Apple (caimito), White Sapote</b>	<b>Anthracnose Black Spot (Cercospora) Phytophthora Fruit Rot</b>	2.0-2.5 lbs.	1.5-1.875 lbs.	Begin applications at flowering and continue at 14 to 21-day intervals. Direct spray to crown and blossom area. Use 20 to 100 gallons of water per acre. Applications may be made up to the day of harvest.

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<b>Restrictions:</b>				
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 37.3 lbs. product or 28 lbs. ai per acre per year.</li> <li>• <b>DO NOT</b> apply more than 2.5 lbs product (1.875 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 18 applications at the lowest rate, or 15 at the higher rate per year.</li> <li>• <b>DO NOT</b> apply more frequently than 14 days.</li> </ul>				
<b>Small Tropical Fruit:</b> Atemoya, Cherimoya, Custard Apple Sugar Apple, Sweetsop	<b>Anthracnose</b>	2.0-2.5 lbs.	1.5-1.875 lbs.	Begin applications at flowering and continue at 7-day intervals. Applications made with aerial equipment must be made in minimum of 5 gallons of water per acre. Applications may be made up to the day of harvest.
<b>Restrictions:</b>				
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 35 lbs. product or 26.25 lbs. ai per acre per growing cycle.</li> <li>• <b>DO NOT</b> apply more than 2.5 lbs product (1.875 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> make more than 17 applications at the lowest rate, or 14 at the higher rate per year.</li> <li>• <b>DO NOT</b> apply more frequently than 7 days.</li> </ul>				
<b>Papayas</b>	<b>Anthracnose</b> <b>Black Spot</b> ( <i>Cercospora</i> ) <b>Phytophthora Fruit Rot</b>	1.5 -2.0 lbs.	1.125-1.5 lbs.	Begin applications when disease pressure threatens and continue at 14 to 21-day intervals. Applications can be made up to the day of harvest.
<b>Restrictions:</b>				
<ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 37.3 lbs. product or 28 lbs. ai per acre per year.</li> <li>• <b>DO NOT</b> apply more than 2.0 lbs product (1.5 lbs a.i.)/A during a single application.</li> <li>• <b>DO NOT</b> apply more frequently than 14 days.</li> <li>• <b>DO NOT</b> make more than 14 applications per year.</li> </ul>				

**OTHER CROPS**

<b>Crop</b>	<b>Diseases</b>	<b>Maximum Pounds of Mancozeb Granuflo per Acre</b>	<b>Maximum Pounds of Active Ingredient per Acre</b>	<b>Directions for Use</b>
<b>Christmas Trees (Conifer)</b>	<b>Lophodermium Needle Cast</b> <b>Pine Gall Rust</b> <b>Scirrhia Brown Spot</b>	2.0-4.0 lbs.	1.5-3 lbs.	Begin applications in spring or early summer before infection occurs. Repeat after heavy rains and at two-week intervals if needed.
<b>Douglas Fir</b>	<b>Swiss Needle Cast</b>	2.0-4.0 lbs.	1.5-3 lbs.	Begin applications in spring or early summer before infection occurs. Repeat after heavy rains and at two-week intervals if needed.
<b>Asparagus Crown (Planting Stock)<sup>(1)</sup></b>	<b>Crown Rot</b>	1.0 lbs. per 100 gallons of water	0.75 per 100 gallons of water	Place loosely packed crowns into a burlap bag and soak, with gentle agitation, in the fungicide solution for 5 minutes. Remove bag, drain well, and plant crowns as soon as possible. A tank large enough to hold a single burlap bag will treat 2 bags of crowns. Clean dipping suspension must then be prepared in a clean tank. Dirty crowns must be prewashed to remove excess soil.

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<b>Restriction:</b> <b>DO NOT use in California.</b>				
<b>Caprifig<sup>(1)</sup></b>	<b>Assorted molds Endosepsis (Fusarium)</b>	1.0 lbs. per 25 gallons of water	0.75 per 100 gallons of water	Prepare mamme figs by making a shallow cut through the eye and then hand dividing to avoid wasp injury. Submerge mamme figs in the fungicide suspension for a minimum of 15 minutes. The fungicide suspension must be stirred frequently to prevent settling out. Use fresh dipping solution after treating 4 or 5 batches of figs. After treatment, drain figs prior to placement in trees. .
<b>Restriction:</b> • <b>DO NOT use in California.</b>				

**SEED TREATMENT**

**Not for Use in California**

Seeds to be treated must be cleaned and well cured prior to treatment. Mancozeb Granuflo must be applied to dry seed with conventional slurry or mist seed-treating equipment or as a planter-box application. For best results, the seed must be completely and uniformly covered with fungicide. For seed treatment, a dye must be added to Mancozeb Granuflo which will impart an unnatural color to the seed.

**APPLICATION RESTRICTIONS**

Seeds/seed-pieces that have been treated with this product that are then packaged or bagged for future use must contain the following labeling on the outside of the seed/seed-piece package or bag:

When opening this bag or loading/pouring the treated seed/seed-pieces, wear long-sleeved shirt, long pants, shoes, socks, chemical resistant gloves, and a NIOSH-approved respirator with a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C or any N, R, P, or HE filter.

Treated Seed/Seed-Pieces – Do Not Use for Food, Feed, or Oil Purpose.

After the seeds/seed-pieces have been planted, do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours. Exception: Once the seeds/seed-pieces are planted in soil or other planting media, the Worker Protection Standard allows workers to enter the treated area without restriction if there will be no worker contact with the soil/media subsurface.

Crop	Diseases	Maximum Rate of Mancozeb Granuflo per Application		Directions
		Ounces per Bushel	Ounces per 100 lbs.	
Barley	Covered Smut Damping-off False Loose Smut Seed Rots Seedling Blights	1.4-2.1 (1.1-1.6 oz a.i.)	2.9-4.5 (2.2-3.4 oz a.i.)	
Corn (field)	Damping-off Seed Rots Seedling Blights	1.6-3.2 (1.2-2.4 oz a.i.)	2.9-5.8 (2.2-4.4 oz a.i.)	
Cotton (acid delinted)	Damping-off Seedling Blights		3.2 (2.4 oz a.i.)	
Cotton (reginned)	Damping-off Seedling Blights		6.4 (4.8 oz a.i.)	
Flax	Damping-off Seed Rots Seedling Blights	2.1-4.3 (1.6-3.2 oz a.i.)	3.8-7.6 (2.9-5.7 oz a.i.)	

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<b>Oats</b>	<b>Damping-off Seed Rots Seedling Blights Smut</b>	1.4-2.1 (1.1-1.6 oz a.i.)	4.3-6.7 (3.2-5.0 oz a.i.)	
<b>Peanuts (shelled)</b>	<b>Damping-off Seed Rots Seedling Blights</b>	2.1-4.3 (1.6-3.2 oz a.i.)	8.5-17.1 (6.4-12.8 oz a.i.)	
<b>Rice</b>	<b>Damping-off Seed Rots Seedling Blights</b>		2.1-4.3 (1.6-3.2 oz a.i.)	Apply before, during and after soaking in water
<b>Rye</b>	<b>Bunt Damping-off Seed Rots Seedling Blights</b>	1.4-2.1 (1.1-1.6 oz a.i.)	2.5-3.8 (1.9-2.9 oz a.i.)	
<b>Safflower</b>	<b>Seedborne Rust (<i>Puccinia carthami</i>)</b>		2.1 (1.6 oz a.i.)	
<b>Sorghum</b>	<b>Covered Kernel Smut Damping-off Seed Rots Seedling Blights</b>	1.6-2.7 (1.2-2.0 oz a.i.)	2.9-4.8 (2.2-3.6 oz a.i.)	
<b>Tomatoes</b>	<b>Damping-off Seed Rots Seedling Blights</b>		8.5 (6.4 oz a.i.)	
<b>Wheat</b>	<b>Bunt Damping-off Seed Rots Seedling Blights</b>	1.4-2.1 (1.1-1.6 oz a.i.)	2.3-3.5 (1.7-2.6 oz a.i.)	

**PRODUCT INFORMATION FOR TURF & ORNAMENTAL USES**

Mancozeb Granuflo is a dry flowable formulation of the broad-spectrum fungicide mancozeb. This product is a multi-site Group M fungicide. It may be used with systemic fungicides for broad-spectrum disease control. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

When used according to directions, it provides control of most common turf grasses and ornamental diseases.

Diseases of turf grass and ornamentals can attack suddenly and unexpectedly causing severe damage and may even result in total loss of large areas of valuable turf grass and ornamental plants. The use of a regular protective spray program will minimize the risk of disease damage and can generally be accomplished with lower rates and less frequent fungicide applications. Once diseases have become established, higher rates of fungicide and more frequent applications are required to bring them under control. Follow a regular protective program for maximum product performance.

**INSTRUCTIONS FOR APPLICATION FOR TURF & ORNAMENTAL USES**

**To mix:** Slowly add Mancozeb Granuflo into half-filled spray tank while the agitator is running to form a well-mixed suspension. If tank-mixing with other materials, add soluble materials (those that form a true solution) first. Then add emulsifiable concentrates (those that form an emulsion in water) in that order after Mancozeb Granuflo. Wettable powder products may be mixed at the same time as Mancozeb Granuflo. Mancozeb Granuflo is compatible with most pesticides. Read and observe the most restrictive precautionary statements and other information appearing on product labels used in mixtures.

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It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

**For air application:** Use at rate indicated in enough water for thorough coverage or a minimum of 2 gallons per acre. Use a spreader-sticker at label-directed rates for the desired use as needed. Add product slowly to water in the spray tank with agitation or premix thoroughly in separate holding tank for concentrate or aircraft sprayers. Follow similar mixing order instructions as stated above for best results. Continuous agitation is required to keep the product in suspension.

**SOD FARM TURF**

**Not for residential use**

Start applications when grass greens-up in the spring or when disease first appears and repeat at a minimum of 10-day intervals. When conditions are especially favorable for disease development, apply maximum fungicide use rate on a 10-day spray schedule. Apply in enough water to provide adequate coverage.

Turf tolerance: treated turfgrass must be maintained in a vigorous growing condition. Turf grass under stress will not respond to fungicide treatments as well as well-maintained turfgrass. Turf grass tolerance to this product has been found to be acceptable, however, this product and tank mixtures with other products have not been tested on all varieties of every turfgrass species or under all possible growing conditions. If user is unfamiliar with the performance of this product or tank mixtures, under user growing conditions, treat a limited area of turfgrass prior to initiating large-scale applications.

Crop	Diseases	Maximum Rate of Mancozeb Granuflo Application Ounces per 1000 sq. ft.	Directions
Assorted Grasses	Helminthosporium melting out	4 (8.2 lbs a.i./A)	
	Rust (leaf, stem, stripe)	4 (8.2 lbs a.i./A)	
	Copper Spot Fusarium Bligh Red Thread Slime Mold	4-8 (8.2-16.3 lbs a.i./A)	
	Algae	6 (12.3 lbs a.i./A)	
	Dollar Spot	6-8 (12.3-16.3 lbs a.i./A)	
	Rhizoctonia Brown Patch	4 (8.2 lbs a.i./A)	
	Pythium Blight	8 (16.3 lbs a.i./A)	
	Fusarium Snow Mold	6-8 (12.3-16.3 lbs a.i./A)	Apply at 2 to 6-week intervals during winter

**Restrictions:**

- DO NOT graze treated areas.
- DO NOT use on grasses intended for grazing.
- DO NOT feed clippings to livestock.
- DO NOT use on grass if grown for seed.
- DO NOT make more than 5 applications per year.
- DO NOT apply more than 23.2 lbs. of product (17.4 lbs. a.i. per acre) per application.
- DO NOT harvest treated turf until 120 hours (5-days) following application.
- DO NOT use in California

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**GOLF COURSES**

When treating golf greens, always treat aprons and approaches. There is a minimum of a 10-day interval between applications.

**For cool season grasses – greens, tees, and aprons:** Limit to a maximum of 5 applications per year at a maximum application rate of 23.2 lbs. of product or 17.4 lbs. ai per acer per application.

**For cool season grasses – fairways:** Limit to a maximum of 4 applications per year at a maximum application rate of 23.4 lbs. of product or 17.4 lbs. ai per acre per application.

**For warm season grasses – greens, tees, and aprons:** Limit to a maximum of 4 applications per year at a maximum application rate of 23.4 lbs. of product or 17.4 lbs. ai per acre per application.

**For warm season grasses – fairways:** Limit to a maximum of 3 applications per year at a maximum application rate of 23.4 lbs. of product or 17.4 lbs. ai per acre per application.

**ALL OTHER COMMERCIAL TURF APPLICATIONS**

**Intended for use only by professional applicators**

For use on all fine turf applications including commercial lawns, cemeteries, parks and golf course greens, tees and fairways of cool season and warm season grasses (including Bent, Bermuda, Bluegrass, Fescue, Rye, St. Augustine and Zoysia types) or their mixtures.

Mancozeb Granuflo is not phytotoxic to any of these mentioned grasses when used in accordance with the label. Refer to Product Use instructions except when more specific instructions are given for individual crops or diseases.

**Product Use:** This product is to be used for the prevention and control of the diseases mentioned below. Start preventive applications when conditions for disease occurrence are favorable or when disease first appears and repeat at 10-day intervals or until disease threat is past. When conditions are especially favorable for disease development, apply maximum fungicide use rate on a 10-day spray schedule. For best results, use spray mixture the same day it is prepared. Spray uniformly over the area to be treated with a properly calibrated power sprayer. Apply after mowing or avoid mowing twelve hours after application. Apply labeled rates in enough water to obtain thorough coverage, 2-4 gallons per 1,000 square feet suggested for mechanical applications, smaller volumes are acceptable for hand applications and with proper equipment calibration.

<b>Diseases</b>	<b>Maximum Rate of Mancozeb Granuflo per Application in Ounces per 1000 sq. ft.</b>
<b>Copper Spot , Red Thread, Fusarium Blight (<i>F. roseum</i>), Slime Mold</b>	4-8 (8.2-16.3 lbs a.i./A)
<b>Helminthosporium, Melting Out, Rhizoctonia Brown Patch, Rust</b>	4 (8.2 lbs a.i./A)
<b>Pythium Blight, Damping Off</b> <b>Note: Apply at 5-day intervals or more frequently if conditions are especially favorable for disease development</b>	8 (16.3 lbs a.i./A)
<b>Dollar Spot</b>	6-8 (12.3-16.3 lbs a.i./A)
<b>Algae</b>	6 (12.3 lbs a.i./A)
<b>Pink Snow Mold (<i>Microdochium nivale</i>)</b> <b>Note: Apply at 2-week intervals during winter snow-free periods</b>	6-8 (12.3-16.3 lbs a.i./A)
<b>Downy Mildew</b>	6-8 (12.3-16.3 lbs a.i./A)
<b>Restrictions:</b>	
<ul style="list-style-type: none"> <li>• <b>DO NOT use on pasture or range grasses.</b></li> <li>• <b>DO NOT graze treated areas.</b></li> <li>• <b>DO NOT feed clippings to livestock.</b></li> <li>• <b>DO NOT use on grass if grown for seed.</b></li> <li>• <b>DO NOT make more than 4 applications per year.</b></li> <li>• <b>DO NOT apply more than 23.4 lbs. of product (17.4 lbs. a.i. per acre per application).</b></li> <li>• <b>DO NOT apply more frequently than 10 days.</b></li> </ul>	

**HORTICULTURAL APPLICATIONS**

**FIELD, NURSERY, GREENHOUSE AND LANDSCAPE**

**Product Use:** Mancozeb Granuflo provides excellent protective activity and is most effective when applied prior to infection periods.

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EPA Reg. No. 45728-NEW

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Intended for use only by professional applicators.

Apply 1 ½ lbs. product per 100 gallons of water in full coverage sprays. To improve performance, add 2 - 4 ounces of an effective spreader-sticker per 100 gallons of spray. Begin spraying when plants are growing, well leafed out, or at first sign of disease. Apply at 7 to 10-day intervals throughout the season as disease development conditions persist and as the plants grow or follow State Extension Service advice for specific disease control practices.

Cut Flowers and Greenhouse Grown Ornamentals: limited to 20 applications per year. **DO NOT** use edible portions of any listed plant for food or feed purposes.

Crop	Diseases	Directions
<b>Ornamentals, Commercial, and Home Garden Use</b>		Refer to Product Use Instructions except when more specific directions are given for individual crops and diseases.
African Violet	Botrytis Blight	
Ageratum	Botrytis Blight Rust	
Almond (ornamental)	Leaf Spot	
Alyssum	Leaf Spot	
Anthurium	Anthraco nose Spadix Rot	
Apple (ornamental) <i>Malus sp.</i>	Fabraea Leaf Spot Rust Scab	
Arborvitae	Cercospora Blight	
Areca Palm	Leaf Spot	
Ash, white	Anthraco nose Cylindrosporium Leaf Spot	
Ash, mountain	Entomosporium Leaf Spot Guignardia Leaf Blotch	
Aster	Leaf Spot	
Aster, perennial	Puccinia Rusts	
Aucuba, japonica	Alternaria Leaf Spot Anthraco nose	
Azalea	Cylindrocladium Rot Petal Blight Phytophthora Twig Bud Blight	Apply in full coverage spray 2 to 3 times a week, while flowers are opening. Direct spray into flowers and thoroughly spray ground under bushes.
Begonia	Botrytis Blight	
Bougainvillea	Leaf Spot	
Boxwood	Leaf Spot	
Buffaloberry	Cylindrosporium Leaf Spot	
Camellia	Petal Blight	Apply in full coverage spray 2 to 3 times a week, while flowers are opening. Direct spray into flowers and thoroughly spray ground under bushes.
Carnation	Rust Septoria Leaf Spot	
Cedar, red	Cercospora Blight Phomopsis Blight	
Chrysanthemum	Anthraco nose	Apply at 1 to 2 lbs. per 100 gallons of water or 1 ½ level tablespoons per gallon of water in full coverage spray.
	Botrytis Petal Spot Rust	Apply twice weekly during the blooming season.

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<b>Cockscomb</b>	<b>Alternaria Leaf Spot</b>	
<b>Conifers (Christmas Trees)</b>	<b>Lophodermium Needle Cast Pine Gall Rust Scirrhia Brown Spot</b>	Begin application in spring or early summer before infection occurs. Repeat after heavy rains and at two-week intervals if needed.
<b>Cordyline</b>	<b>Cercospora Leaf Spot</b>	
<b>Crabapple (ornamental)</b>	<b>Cedar Apple Rust Scab Sphaeropsis Leaf Spot</b>	
<b>Cypress, Arizona</b>	<b>Cercospora Blight Monochaetia Canker</b>	
<b>Dahlia</b>	<b>Botrytis Blight</b>	
<b>Delphinium</b>	<b>Botrytis Blight</b>	
<b>Dieffenbachia</b>	<b>Leptosphaeria Brown Spot</b>	
<b>Dogwood, flowering</b>	<b>Anthracnose</b>	Apply when buds begin to open, when bracts have fallen, 4 weeks later, and again in late summer after flower buds for next season have formed.
	<b>Elsinoe Leaf Spot Septoria Leaf Spot</b>	
<b>Dracaena</b>	<b>Fusarium Leaf Spot</b>	
<b>Elm</b>	<b>Black Leaf Spot</b>	
<b>Euonymus</b>	<b>Anthracnose</b>	
<b>Fatsia</b>	<b>Anthracnose</b>	
<b>Ferns</b>	<b>Rhizoctonia Blight</b>	
	<b>Anthracnose</b>	Apply 2-3 times weekly as needed through chemigation or air blast spray to thoroughly wet the entire plant canopy. This product may be tank mixed with other systemic products as directed by the local extension services for enhanced control.
<b>Ficus</b>	<b>Cercospora Leaf Spot</b>	
<b>Fig (ornamental)</b>	<b>Cylindrocladium Leaf Spot</b>	
<b>Firethorn</b>	<b>Fusicladium Scab</b>	
<b>Fir, Douglas</b>	<b>Swiss Needle Cast</b>	
<b>Fir, Fraser</b>	<b>Swiss Needle Cast</b>	
<b>Fuchsia</b>	<b>Botrytis Blight Rust</b>	
<b>Geranium</b>	<b>Rust</b>	
<b>Gladiolus</b>	<b>Curvularia Leaf Spot Botrytis Blossom Blight</b>	On flower spikes, use at ¼ lbs. per 100 gallons of water. Make weekly applications starting before diseases appear and increase to 2 or 3 applications per week during periods of heavy disease and during rainy weather.
<b>Gloxinia</b>	<b>Botrytis Blight</b>	
<b>Gypsophila</b>	<b>Botrytis Blight</b>	
<b>Hawthorn</b>	<b>Cedar Apple Rust Fabraea Leaf Spot Frogeye Leaf Spot Hawthorn Rust Scab</b>	
<b>Hickory</b>	<b>Gnomonia Leaf Spot</b>	
<b>Holly</b>	<b>Purple Spot</b>	
<b>Hollyhock</b>	<b>Anthracnose Cercospora Leaf Spot Puccinia Rust</b>	
<b>Honeysuckle</b>	<b>Herpobasidium Blight</b>	

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Horsechestnut	<b>Alternaria Leaf Spot</b> <b>Guignardia Leaf Blotch</b>	
Hydrangea	<b>Botrytis Blight</b> <b>Cercospora Leaf Spot</b>	
Impatiens	<b>Botrytis Blight</b>	
Iris	<b>Didymellina Leaf Spot</b> <b>Mycoshaerella Leaf Spot</b> <b>Mystrosporium Ink Spot</b>	
Juniper	<b>Phomopsis Blight</b>	
Larkspur	<b>Rust</b>	
Laurel, mountain	<b>Cercospora Leaf Spot</b> <b>Petal Blight</b>	Apply in full coverage spray 2 to 3 times a week, while flowers are opening. Direct spray into flowers and thoroughly spray ground under bushes.
Ligustrum	<b>Cercospora Leaf Spot</b>	
Lily	<b>Botrytis Blight</b>	
Magnolia	<b>Gloeosporium Leaf Spot</b>	
Maple	<b>Alternaria Leaf Spot</b> <b>Phyllosticta Leaf Spot</b>	
<b>Restriction: DO NOT use on Sugar maples intended to produce maple syrup.</b>		
Narcissus	<b>Botrytis Blight (fire)</b> <b>Smolder</b>	
Oak	<b>Actinopelte Leaf Spot</b> <b>Taphrina Leaf Blister</b>	
Orchids	<b>Botrytis Blossom Blight</b>	
Oxalis	<b>Rust</b>	
Pansy	<b>Anthracnose</b>	
Pear (ornamental)	<b>Fabraea Leaf Spot</b> <b>Rust</b> <b>Scab</b>	
Peony	<b>Phytophthora Blight</b> <b>Botrytis Blight</b>	Apply in early spring and early fall, drenching soil around plants as well as the foliage. Promptly destroy all infected plant parts.
Peperomia	<b>Cercospora Leaf Spot</b>	
Petunia	<b>Botrytis Blight</b>	
Philodendron	<b>Dactylaria Leaf Spot</b> <b>Phytophthora Leaf Spot</b>	
Phlox	<b>Leaf Spot</b>	
Photinia (Red Tip)	<b>Entomosporium Leaf Spot</b>	
Pine, Australia	<b>Cyclaneusma Needle Cast</b>	
Pine Scotch	<b>Cyclaneusma Needle Cast</b> <b>Gall Rust</b>	
Pittosporium	<b>Alternaria Leaf Spot</b>	
Pleomele	<b>Fusarium Leaf Spot</b>	
Poplar	<b>Rust</b>	
Primrose	<b>Botrytis Blight</b>	
Protea	<b>Botrytis Blight</b>	
Quince (ornamental)	<b>Fabraea Leaf Spot</b> <b>Rust</b> <b>Scab</b>	
Rhododendron	<b>Cercospora Leaf Spot</b> <b>Discosia Leaf Spot</b> <b>Petal Blight</b>	Apply in full coverage spray 2 to 3 times a week, while flowers are opening. Direct spray into flowers and thoroughly spray ground under bushes.
Rose	<b>Black Spot</b>	

Note to PM:

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[Bracketed information is optional.] Text separated by / denotes and/or options.

	<b>Cercospora Leaf Spot Rust</b>	
<b>Rosemary</b>	<b>Rhizoctonia Aerial Blight</b>	
<b>Schefflera</b>	<b>Alternaria Blight</b>	
<b>Skunkbrush, sumac</b>	<b>Cylindrosporium Leaf Spot</b>	
<b>Snapdragons</b>	<b>Rust</b>	
<b>Spathaphylum</b>	<b>Myrothecium Leaf Spot</b>	
<b>Statice</b>	<b>Cercospora Frogeye</b>	
<b>Strawflower</b>	<b>Rust</b>	
<b>Syngonium</b>	<b>Cephalosporium Leaf Spot</b>	
<b>Thom Apple</b>	<b>Rust</b>	
<b>Tulip</b>	<b>Botrytis Blight (fire)</b>	
<b>Venus Flytrap</b>	<b>Anthracoese</b>	
<b>Viburnum</b>	<b>Downy Mildew Ramularia Leaf Spot</b>	
<b>Walnut</b>	<b>Anthracoese</b>	
<b>Restriction: DO NOT</b> use treated walnuts for food or feed purposes.		
<b>Zinnia</b>	<b>Leaf Blight</b>	

Mancozeb Granuflo is not for the treatment of Marigolds due to highly variable plant responses.

**Note:** The Directions for Use of this product and the list of ornamental plants given on this label reflect cumulative inputs from both field use experience and product testing programs. However, it is impossible to test this product on all ornamental plant species and cultivars. Before treating any ornamental plant for prevention of infection from a listed pathogen, a preliminary trial is suggested on a small scale before a full treatment is applied. Wait 5 to 7 days after treatment to evaluate results.

#### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in the original container in a dry area. Keep away from sources of ignition, (e.g. sparks and open flame). Close bag when not in use. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, sweep up spillage and dispose of in accordance with the Pesticide Disposal Instructions listed below.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling, if available, or dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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**TERMS OF SALE OR USE**

On purchase of this product, buyer and user agree to the following conditions:

**Warranty:** Taminco US LLC makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Except as so warranted, the product is sold as is. To the extent consistent with applicable law, buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

**Damages:** To the extent consistent with applicable law, buyer's or user's exclusive remedy for damages for breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid and shall not include incidental or consequential damages.

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